## AMENDMENTS TO THE CLAIMS

1.    (Currently Amended) A method comprising:

electing a first server as active manager server, wherein the first server resides in

a chassis and the active manager to run services for each server in the

chassis;

electing a second server to replace the first server to act as the active manager

server based on a predetermined criteria if the first server fails, wherein

the second server resides in the chassis;

~~determining automatically, by~~ receiving an indication, ~~if~~ that the first server has

failed ~~or has been overloaded~~, wherein the indication is ~~generated~~ based

on health matrices and performance matrices;

automatically replacing the first server with the ~~electing a~~ second server

~~automatically~~ as the active manager server ~~to replace the first server as the~~

~~active manager server~~ in response to the indication received, ~~wherein the~~

~~second server resides in the chassis~~; and

redirecting requests for the first server to the second server.

2.    (Currently Amended) The method of claim 1, ~~wherein the election is performed~~

~~based on a predetermined criteria,~~ wherein the predetermined criteria comprises

electing a server with the lowest IP address as the active manager server.

3.    (Previously Presented) The method of claim 1, further comprising:

extracting the health metrics and performance metrics, wherein the health metrics

and performance metrics are dynamic;

replicating the health metrics and performance metrics, wherein the replicating

the health metrics and performance metrics is performed periodically; and

dynamically updating a database populated with the health metrics and performance metrics.

4.   (Original) The method of claim 3, wherein the health metrics are server-based.

5.   (Original) The method of claim 3, wherein the health metrics comprise tracking power levels and temperature levels based on predetermined thresholds.

6.   (Original) The method of claim 3, wherein the performance metrics comprise operating system-based metrics, kernel-based metrics, and server-based metrics.

7.   (Previously Presented) The method of claim 3, wherein the performance metrics comprise tracking CPU utilization and memory utilization based on predetermined thresholds.

8.   (Original) The method of claim 3, further comprises an alert mechanism to alert whenever the health metrics or the performance metrics violate the predetermined thresholds.

9.   (Original) The method of claim 3, further comprising replicating identification information, wherein the identification information is static.

10.   (Currently Amended) A high-availability management system comprising:

a chassis comprising a plurality of slots;

a plurality of server modules coupled to the plurality of slots, wherein a first server module of the plurality of server modules is elected as an active manager server, the active manager to run services for each of the plurality of server modules;

a second server module elected to replace the first server to act as the active manager server based on a predetermined criteria if the first server module fails;

an indication ~~to automatically determine if~~ to indicate that the first server module

has failed ~~or has been overloaded~~, wherein the indication is ~~generated~~

based on health matrices and performance matrices;

~~a~~ the second server module to automatically replace the first server module as the

active manager server in response to the indication received; and

a redirection process to redirect requests for the first server module to the second

server module.

11.    (Original) The high-availability management system of claim 10, further

comprising a database coupled to the chassis for storing information regarding

chassis identification, slot identification, and server module type.

12-13. (Cancelled)

14.    (Previously Presented) The high-availability management system of claim 10,

wherein the election of the first server module as the active manager server is

performed by middleware, wherein the middleware comprises a software.

15.    (Currently Amended) The high-availability management system of claim ~~13~~10,

wherein the election of the second server module as the active manager server is

performed by the middleware.

16.    (Original) The high-availability management system of claim 10, wherein the first

server module is elected from a group comprising servers, telephone line cards,

and power substations.

17.    (Currently Amended) A method of uninterrupted management using sticky

identification comprising:

assigning a chassis identification to a chassis coupled to a computer, wherein the

chassis comprises a slot;

assigning a slot identification to the slot based on ~~the slot's~~ a location of the slot

in the chassis;

assigning a server module type to the slot based on the chassis identification and

the slot identification, wherein the server module type indicates server

module characteristics;

electing a first server module as active manager server, wherein the first server

module resides in the chassis and the active manager to run services for

each server in the chassis;

electing a second server module to replace the first server module to act as the

active manager server based on a predetermined criteria if the first server

module fails, wherein the second server module resides in the chassis;

~~determining automatically, by~~ receiving an indication, ~~if~~ that the first server

module has failed ~~or has been overloaded~~, wherein the indication is

~~generated~~ based on health matrices and performance matrices;

automatically replacing the first server module with the ~~electing a~~ second server

module ~~automatically~~ as the active manager server ~~to replace the first~~

~~server module as the active manager server~~ in response to the indication

received, ~~wherein the second server module resides in the chassis~~; and

redirecting requests for the first server module to the second server module.

18.    (Original) The method of uninterrupted management using sticky identification of

claim 17, further comprising retaining the server module characteristics

corresponding to the server module type.

19.    (Currently Amended) The method of uninterrupted management using sticky

identification of claim 17, further comprising:

removing a-the first server module from the slot;

coupling a-the second server module to the slot; and

managing the second server module based on the server module characteristics

corresponding to the server module type, wherein the managing the

second server module is performed without updating a network

management system.

20. (Original) The method of uninterrupted management using sticky identification of

claim 17, further comprising:

assigning a user-defined chassis identification;

assigning a user-defined slot identification;

assigning a user-defined module identification; and

retaining the user-defined chassis identification and the user-defined slot

identification and the user-defined module identification.

21. (Currently Amended) A machine-readable medium having stored thereon data

representing sets of instructions, the sets of instructions which, when executed by

a machine, cause the machine to:

elect a first server as active manager server, wherein the first server resides in a

chassis and the active manager to run services for each server in the

chassis;

elect a second server to replace the first server to act as the active manager server

based on a predetermined criteria if the first server fails, wherein the

second server resides in the chassis;

~~determine automatically, by receiving~~ receive an indication, ~~if~~ that the first server ~~failed or is overloaded~~, wherein the indication is ~~generated~~ based on health matrices and performance matrices;

automatically replace the first server with the~~elect a~~ second server ~~automatically~~ as the active manager server ~~to replace the first server as the active manager server~~ in response to the indication received, ~~wherein the second server resides in the chassis~~; and

redirect requests for the first server to the second server.

22. (Currently Amended) The machine-readable of claim 21, ~~wherein the election is performed based on a predetermined criteria,~~ wherein the predetermined criteria comprises electing a server with the lowest IP address as the active manager server.

23. (Previously Presented) A machine-readable medium of claim 21, wherein the sets of instructions which, when executed by the machine, further cause the machine to:

extract the health metrics and performance metrics, wherein the health metrics and performance metrics are dynamic;

replicate the health metrics and performance metrics, wherein the replicating the health metrics and performance metrics is performed periodically; and

dynamically update a database populated with the health metrics and performance metrics.

24. (Currently Amended) A machine-readable medium having stored thereon data representing sets of instructions, the sets of instructions which, when executed by a machine, cause the machine to:

assign a chassis identification to a chassis coupled to a computer, wherein the

chassis comprises a slot;

assign a slot identification to the slot based on a ~~the slot's~~ location of the slot in

the chassis;

assign a server module type to the slot based on the chassis identification and the

slot identification, wherein the server module type indicates server module

characteristics;

elect a first server module as active manager server, wherein the first server

module resides in the chassis and the active manager to run services for

each server in the chassis;

elect a second server module to replace the first server module to act as the active

manager server based on a predetermined criteria if the first server module

fails, wherein the second server module resides in the chassis;

~~determine automatically, by receiving~~ receive an indication, ~~if~~ that the first server

module has failed ~~or has been overloaded~~, wherein the indication is

~~generated~~ based on health matrices and performance matrices;

automatically replace the first server module with the ~~elect a~~ second server

module ~~automatically~~ as the active manager server ~~to replace the first~~

~~server module as the active manager server~~ in response to the indication

received, ~~wherein the second server module resides in the chassis~~; and

redirect requests for the first server to the second server.

25.     (Previously Presented) The machine-readable medium of claim 24, wherein the

sets of instructions which, when executed by the machine, further cause the

machine to retain the server module characteristics corresponding to the server

module type.

26.    (Currently Amended) The machine-readable medium of claim 24, wherein the

sets of instructions which, when executed by the machine, further cause the

machine to:

remove a-the first server module from the slot;

couple a-the second server module to the slot; and

manage the second server module based on the server module characteristics

corresponding to the server module type, wherein the managing the

second server module is performed without updating a network

management system.